

METHOD AND SYSTEM FOR PERFORMING A HANDOFF IN A WIRELESS COMMUNICATION SYSTEM, SUCH AS A HARD HANDOFF

ABSTRACT

A method for minimizing search time and disruption of current service on an originating frequency during a frequency search excursion to a target frequency as part of an inter-frequency hard handoff between cells on different RF CDMA channels. Disruption of service on the current frequency during the frequency search excursion to the target frequency is minimized by increasing the amount of power allocated to other symbols of two consecutive frames impacted by the search excursion as a function of the search excursion time. The mobile station tunes to a target frequency and collects chip samples, which are stored in a memory buffer. The mobile station returns to the originating frequency to process the collected samples.